

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	23	"5,576,697"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/30 00:09
S2	1	("5,280,272").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/30 00:09
S3	23	"5,280,272"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/30 00:09
S4	50	(US-4299170-\$ or US-4469953-\$ or US-4384488-\$ or US-4432511-\$ or US-4475390-\$ or US-4868384-\$ or US-4949077-\$ or US-5381130-\$ or US-5477218-\$ or US-5523744-\$ or US-5610592-\$ or US-5670948-\$ or US-5730638-\$ or US-5872517-\$ or US-5986556-\$ or US-4291629-\$ or US-4296023-\$ or US-4297688-\$ or US-4300133-\$ or US-4316184-\$ or US-4374329-\$ or US-4410266-\$ or US-4594581-\$ or US-4610217-\$ or US-4758733-\$ or US-4786662-\$).did. or (US-4788530-\$ or US-4851819-\$ or US-4857895-\$ or US-4993058-\$ or US-5008559-\$ or US-5296922-\$ or US-5302837-\$ or US-5420440-\$ or US-5423336-\$ or US-5424554-\$ or US-5440145-\$ or US-5443625-\$ or US-5486816-\$ or US-	USPAT	OR	ON	2009/06/14 17:25

		5497144-\$ or US- 5502434-\$ or US- 5520940-\$ or US- 5611163-\$ or US- 5670947-\$ or US- 5694208-\$ or US- 5700971-\$ or US- 5898377-\$ or US- 5929988-\$ or US- 5969437-\$ or US- 6057775-\$).did.				
S5	10	("3585621"   "4099178"   "5309148").PN. OR ("5497144").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/14 17:28
S6	10	("3585621"   "4099178"   "5309148").PN. OR ("5497144").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/06/14 17:43
S7	1	("20080246623").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/06/20 21:34
S8	2	("6109631").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/15 19:05
S9	5	("2006109631").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/15 19:05
S10	0	(06/109631).APP.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/15 19:06
S11	1040	(LIGHT NEAR10 SCATTER \$5) SAME (SMOKE NEAR5 (DETECT\$3 SENSOR\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/15 19:07
S12	3055	(HOUS\$3 BODY ENCLOS \$5) SAME (EMITTER WITH RECEIVER)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/15 19:09

S13	20	S11 AND S12	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/15 19:09
S14	68	("3708675"   "3968379"   "3980997"   "3982130"   "3994603"   "4001800"   "4063227"   "4104619"   "4131888"   "4185278"   "4241282"   "4249169"   "4300133"   "4316184"   "4319234"   "4420746"   "4469953"   "4539556"   "4614968"   "4647785"   "4678921"   "4680576"   "4754150"   "4758733"   "4769550"   "4851819"   "4857895"   "4870394"   "4901056"   "5053754"   "5103096"   "5117219"   "5138562"   "5247283"   "5341214"   "5369397"   "5400014"   "5451931"   "5473314"   "5523743"   "5546074"   "5552765"   "5565984"   "5576697"   "5592147"   "5629671"   "5646597"   "5673020"   "5691704"   "5699043"   "5705988"   "5708414"   "5719557"   "5721529"   "5726633"   "5751218"   "5767776"   "5896088"   "5898377"   "6008729"   "6049446"   "6087947"   "6362743").PN. OR ("6876305").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/15 19:14
S15	1237	(HOUS\$3 BODY ENCLOS \$5) SAME (LIGHT NEAR10 (EMITTER WITH RECEI VER))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/15 19:46
S16	20	S11 AND S15	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/15 19:46

S17	68	( "3708675"   "3968379" "3980997"   "3982130" "3994603"   "4001800" "4063227"   "4104619" "4131888"   "4185278" "4241282"   "4249169" "4300133"   "4316184" "4319234"   "4420746" "4469953"   "4539556" "4614968"   "4647785" "4678921"   "4680576" "4754150"   "4758733" "4769550"   "4851819" "4857895"   "4870394" "4901056"   "5053754" "5103096"   "5117219" "5138562"   "5247283" "5341214"   "5369397" "5400014"   "5451931" "5473314"   "5523743" "5546074"   "5552765" "5565984"   "5576697" "5592147"   "5629671" "5646597"   "5673020" "5691704"   "5699043" "5705988"   "5708414" "5719557"   "5721529" "5726633"   "5751218" "5767776"   "5896088" "5898377"   "6008729" "6049446"   "6087947" "6362743").PN. OR ("6876305").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/15 19:48
S18	664	(340/630).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/15 19:52
S19	32	( "20030215766"   "20050143717"   "4330578"   "4369157"   "4418033"   "4427615"   "4616928"   "4650533"   "4808366"   "4861644"   "4892779"   "4906978"   "4983348"   "5138302"   "5227222"   "5338396"   "5512227"   "5514427"   "5536539"   "5591384"   "5626339"   "5629029"   "5637329"   "5658672"   "5676981"   "5698283"   "5705255"   "5707472"   "5795527"   "5800757"   "6007759"   "6300876"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/15 20:01

S20	9	("3992102"   "4216377"   "4488049").PN. OR ("4616928").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/15 20:05
S21	17	("4152070"   "4616928").PN. OR ("5391891").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/15 20:06
S22	28	("4225791"   "4260984"   "4405919"   "4506161"   "4556873"   "4638304"   "4647789"   "4665311"   "4670741"   "4692750"   "4755048"   "4757306"   "4785283"   "4827247"   "4839527"   "5172004").PN. OR ("5477218").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/21 15:06
S23	9	("20020021224"   "4374329"   "4827244"   "5170150"   "5497144"   "5523744"   "5670946"   "6198399"   "6769285").PN. OR ("7167098").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/21 15:11
S24	9	("3992102"   "4216377"   "4488049").PN. OR ("4616928").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/21 15:14
S25	27	("20020060632"   "20020153499"   "20080211681"   "4121110"   "4166960"   "4642471"   "4728801"   "4769550"   "4769550"   "4870394"   "5008559"   "5280272"   "5381130"   "5451931"   "5477218"   "5568130"   "5576697"   "5576697"   "5581241"   "5587790"   "5623253"   "5898377"   "6011478"   "6218950"   "6239710"   "6515589"   "6876305"   "6914535"   "7224284").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/21 15:15
S26	11	("3916209"   "3992102").PN. OR ("4121110").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/21 16:54
S27	14	("5502434"   "5576697"   "5751216"   "5898377").PN. OR ("6011478").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/21 17:07

S28	2	((fire alarm) threshold) and ((false near3 alarm) with threshold) and (obstacle near3 threshold)	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/21 17:15
S29	2	((fire alarm) with threshold) and ((false near3 alarm) with threshold) and (obstacle near3 threshold)	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/21 17:17
S30	137	((fire alarm) with threshold) and ((false near3 alarm) with threshold) and ((obstacle object) near3 threshold)	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/21 17:20
S31	9	((fire alarm) with threshold) and ((false near3 alarm) with threshold) and ((obstacle object) near3 threshold) and (LIGHT NEAR10 SCATTER\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/21 17:21
S32	1	("20050156747").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/30 22:50
S33	1	("4306230").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/30 22:54
S34	9	("20020021224"   "4374329"   "4827244"   "5170150"   "5497144"   "5523744"   "5670946"   "6198399"   "6769285").PN. OR ("7167098").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/30 23:02
S35	30	(US-20080246623-\$ or US-20080258925-\$ or US-20020153499-\$ or US-20050156747-\$).did. or (US-5497144-\$ or US-5477218-\$ or US-6404493-\$ or US-7474226-\$ or US-7167098-\$ or US-6876305-\$ or US-7440100-\$ or US-6362743-\$ or US-5898377-\$ or US-5719557-\$ or US-5576697-\$ or US-5565984-\$ or US-5451931-\$ or US-4870394-\$ or US-4469953-\$ or US-	US-PGPUB; USPAT; DERWENT	OR	ON	2009/09/30 23:15

		4420746-\$ or US- 4616928-\$ or US- 5391891-\$ or US- 4405919-\$ or US- 7365648-\$ or US- 6914535-\$ or US- 6515589-\$ or US- 6011478-\$ or US- 4121110-\$ or US- 4306230-\$).did. or (WO- 8700627-\$).did.				
S36	1	obstacle and S35	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/30 23:15
S37	18	(obstacle obstruct\$3 insect block) and S35	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/30 23:16
S38	0	(plural\$5 multipl\$4 dual) same (wavelenth with light near7 emitter)	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/01 00:13
S39	795	(plural\$5 multipl\$4 dual) same (wavelength with (light near7 emitter))	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/01 00:13
S40	1	(LIGHT NEAR10 SCATTER \$5) SAME (SMOKE NEAR5 (DETECT\$3 SENSOR\$3)) and S39	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 00:14
S41	409	angle\$2 and S39	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 00:55
S42	0	(LIGHT NEAR10 SCATTER \$5) SAME (SMOKE NEAR5 (DETECT\$3 SENSOR\$3)) and S41	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 00:55
S43	0	(LIGHT NEAR10 SCATTER \$5) and (SMOKE NEAR5 (DETECT\$3 SENSOR\$3)) and S41	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 00:56
S44	1	(collimated near5 parallel) and S35	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/01 01:21
S45	5	collimat\$3 and S35	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/01 01:22
S46	5	parallel and S45	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/01 01:23

S47	9	("3992102"   "4216377"   "4488049").PN. OR ("4616928").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/01 02:58
S48	665	(340/630).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/01 03:38
S49	77	(340/693.11).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/01 03:38
S50	956	(340/628).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/01 03:38
S51	924	(340/514).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/01 03:38
S52	417	(340/515).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/01 03:38
S53	372	(340/629).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/01 03:39
S54	156	(340/631).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/01 03:39
S55	929	(340/632).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/01 03:39
S56	110	(73/1.07).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/01 03:39
S57	102	(73/1.05).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/01 03:39
S58	175	(73/1.03).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/01 03:39
S59	387	(73/1.06).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/01 03:40
S60	17	Nagashima-Tetsuya.inv.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/01 03:43
S61	190	Nagashima-Tetsuya.inv.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/01 03:43
S62	913	(356/338).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/01 03:47
S63	391	(356/337).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/01 03:47
S64	338	(356/339).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/01 03:47

### EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S65	3	(340/630).CCLS.	UPAD	OR	OFF	2009/10/01 03:40



S66	0	(340/693.11).CCLS.	UPAD	OR	OFF	2009/10/01 03:40
S67	25	(340/628).CCLS.	UPAD	OR	OFF	2009/10/01 03:40
S68	8	(340/514).CCLS.	UPAD	OR	OFF	2009/10/01 03:40
S69	564	(340/630).CCLS.	US-PGPUB; USPAT; UPAD	OR	OFF	2009/10/01 03:41
S70	327	(340/515).CCLS.	US-PGPUB; USPAT; UPAD	OR	OFF	2009/10/01 03:41
S71	0	(340/629).CCLS.	UPAD	OR	OFF	2009/10/01 03:41
S72	0	(340/631).CCLS.	UPAD	OR	OFF	2009/10/01 03:41
S73	13	(340/632).CCLS.	UPAD	OR	OFF	2009/10/01 03:41
S74	0	(73/1.07).CCLS.	UPAD	OR	OFF	2009/10/01 03:41
S75	5	(73/1.03).CCLS.	UPAD	OR	OFF	2009/10/01 03:42
S76	12	(73/1.06).CCLS.	UPAD	OR	OFF	2009/10/01 03:42
S77	0	(73/1.05).CCLS.	UPAD	OR	OFF	2009/10/01 03:42
S78	2	(356/339).CCLS.	UPAD	OR	OFF	2009/10/01 03:47
S79	5	(356/338).CCLS.	UPAD	OR	OFF	2009/10/01 03:47
S80	9	(356/337).CCLS.	UPAD	OR	OFF	2009/10/01 03:47

**10/1/2009 3:51:00 AM**

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